No.



8300157

TO ALL TO WHOM THESE PRESENTS SHALL COME:

FFR Cooperative, Inc.

Colherens. There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT INTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-ANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT O THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC ED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-DE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ETHEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

'F42'

In Testimony Whereot, I have hereunto set my hand and caused the seal of the Plaut Tariety Protection Office to be affixed at the City of Washington

this 30th

day of November

the year of our Lord one thousand nine

hundred and eighty-four.

John R Block Secretary of Agriculture

" U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE				FORM APPROVED: OMB NO. 0581-000			
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE				No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.)			
1. NAME OF APPLICANT(S)	ns on reverse)		553)	·		· · · - · · · · · · · · · · · · · · · ·	
·		2. TEMPORARY DESIGNATION	- 1	ARIETY NAME			
FFR COOPERATIVE, INC.		0-6845		F42			
4. ADDRESS (Street and No. or R.F.D. No., City, Sta	5. PHONE (Include area code)	PVP	FOR OFFICIA O NUMBER	L USE ONL	LY		
4112 East State Road 225 PO Box 242, Battleground, IN 4	317/567-2115		8300157				
6. GENUS AND SPECIES NAME	7. FAMILY NA	AME (Botanical)	FILING	DATE			
Zea mays	ea mays Gram:			6/30/83 TIME 2:30 [3 	 □ P.M.	
8. KIND NAME	9). DATE OF DETERMINATION	+-	AMOUNT FOR		<u> </u>	
Dent corn		7/28/80	\$ 1,000 DATE 6/30/8		·		
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)			FEES REC	6/30/ AMOUNT FOR \$ 500.00		CATE	
Cooperative				DATE 1/6/84	<u>-</u>		
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Wisconsin				12. DATE OF INCORPORATION			
a. X Exhibit A, Origin and Breeding History of the Section 52 of the Plant Variety Protection A.	e Variety (See	c. X Exhibit C, Objective	Descript rotection	tion of the Variet	y (Request.	form	
b. X Exhibit B, Novelty Statement		d. Exhibit D, Addition	ıl Descri	ption of the Varie	≑ty		
15. DOES THE APPLICANT(S) SPECIFY THAT SEE SEED? (See Section 83(a) of the Plant Variety Pro	tection Act.)	IETY BE SOLD BY VARIETY NAI Yes (If "Yes," answe			OF CERTIF	IED X No	
16. DOES THE APPLICANT(S) SPECIFY THAT THIS LIMITED AS TO NUMBER OF GENERATIONS?	VARIETY BE	17. IF "YES" TO ITEM 16, BEYOND BREEDER SE	WHICH	CLASSES OF PI	RODUCTIO	N	
Yes X No 18. DID THE APPLICANT(S) FILE FOR PROTECTION	ON OF THE VAR	Foundation		egistered	Cei	rtified	
		TETT IN THE G.G. ON OTHER GO	ONTHI	☐ Yes	(If "Yes," o countries and	give name d dates)	
				X No			
19. HAVE RIGHTS BEEN GRANTED IN THE U.S. O	R OTHER COUN	NTRIES?		Yes of c	(If "Yes," g	give name d dates)	
				X No			
20. The applicant(s) declare(s) that a viable samp plenished upon request in accordance with su	le of basic seed och regulations	ls of this variety will be furnishe as may be applicable.	d with	the application	and will b	oe re-	
The undersigned applicant(s) is (are) the own distinct, uniform, and stable as required in Se Variety Protection Act.	er(s) of this serection 41, and i	kually reproduced novel plant vi s entitled to protection under the	ariety, a ne provi	and believe(s) thisions of Section	nat the var n 42 of th	riety is le Plant	
Applicant(s) is (are) informed that false repre	sentation herei	n can jeopardize protection and	result	in penalties.			
SIGNATURE OF APPLICANT			D.	5/9/03			
SIGNATURE OF APPLICANT			_'	ATE . (<u> </u>		
Stop by 1				5/9/83		1	

FORM LMGS-470 (9-81) (Edition of 1-78 is obsolete)

EXHIBIT A

Item 14a

- 1. The geneology of F42 is directly from B73 through mutation induction with nitrosoquanidine. The breeding method used was as described by Neuffer in Corn and Corn Improvement 1977, pages 196-204.
- 2. The subsequent stages of selection and multiplication are listed below:

1979	M_1 plants selfed for ear-to-row procedures in 1980
1980	$\ensuremath{\text{M}}_2$ plants selfed of early and normal version
4	within same row
1980-81	M ₃ winter nursery ear-to-rowed selfs of M ₂
	plants
1981	M ₄ plants selfed and maturity dates recorded
1981-82	M5 winter nursery lost
1982	M ₅ ear-to-row method used and uniform row
	selected for increase in 82-83 winter nursery
1982-83	Winter nursery seed increased for production

- 3. The type of variants during reproduction and multiplication was a one or two-day difference in days to silking between ear rows and within ear rows. This was probably due to environmental effects such as plant spacing and germination differences.
- 4. Evidence of uniformity and stability is indicated in the attached photograph and by individual plant silking data taken in 1982.



October 8, 1984

FFR COOPERATIVE

4112 E. State Road 225 W. Lafayette, IN 47906

317-567-2115

EXHIBIT B

Mr. Robert J. Snyder, Examiner Plant Variety Protection Office National Agricultural Library Building Beltsville, MD 20705

Dear Mr. Snyder:

Re: Corn Application No. 8300157, "F42"

Please accept the following ammended statement of novelty for section 14B.

F42 is most similar to B73 for it is an induced mutation of B73. F42 can be distinguished from B73 because it sheds pollen and silks 10 to 12 days earlier than B73. F42 is also shorter and has fewer leaves than B73.

Sincerely,

FFR COOPERATIVE

David D. Alvey, Ph.D. Corn Research Director

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

EXHIBIT C (Corn)

OBJECTIVE DESCRIPTION OF VARIETY

NAME OF APPLICANT(S)	
FFR COOPERATIVE	PYPO NUMBER O O O O A TOTAL
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	8300157
4112 East State Road 225	VARIETY NAME OR TEMPORARY DESIGNATION
PO Box 242, Battleground, IN 47920	F42
Place the appropriate number that describes the varietal character of this va Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99	riety in the boxes below. or less or 9 or less.
1. TYPE:	
2 1 = SWEET 2 = DENT 3 = FLINT 4 = FLOUR	5 = POP 6 = ORNAMENTAL
2. REGION WHERE BEST ADAPTED IN THE U.S.A.:	
1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORT 5 = SOUTHCENTRAL 6 = SOUTHWEST 7 = MOST	
3. MATURITY (In Region of Best Adaptability):	(Under "comments" (pg. 3) state how
	heat units were calculated)
6 7 DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK	1 5 0 0 HEAT UNITS
DAYS FROM 50% SILK TO OPTIMUM EDIBLE QUALITY	HEAT UNITS
DAYS FROM 50% SILK TO HARVEST AT 25% KERNEL MOISTURE	HEAT UNITS
4. PLANT:	
2 0 6 CM. HEIGHT (To tassel tip)	CM, EAR HEIGHT (To base of top ear)
1 5 CM. LENGTH OF TOP EAR INTERNODE	
Number of Tillers: Number of Ea	s Per Stalk:
1 = NONE $2 = 1-2$ $3 = 2-3$ $4 = >3$ 2 1 = SIN	GLE 2 = SLIGHT TWO-EAR TENDENCY
1 = NONE $2 = 1-2$ $3 = 2-3$ $4 = >3$ 2 1 = SIN	
1 = NONE $2 = 1-2$ $3 = 2-3$ $4 = > 3$ 2 $1 = SIN$ 3 = STF Cytoplasm Type:	GLE 2 = SLIGHT TWO-EAR TENDENCY ONG TWO-EAR TENDENCY 4 = THREE-EAR TENDENCY
1 = NONE $2 = 1-2$ $3 = 2-3$ $4 = > 3$ 2 $1 = SIN$ 3 = STF Cytoplasm Type:	GLE 2 = SLIGHT TWO-EAR TENDENCY
1 = NONE $2 = 1 - 2$ $3 = 2 - 3$ $4 = > 3$ 2 1 = SIN 3 = STE Cytoplasm Type: 5 1 = NORMAL $2 = "T"$ $3 = "S"$ $4 = "C"$ 5	GLE 2 = SLIGHT TWO-EAR TENDENCY ONG TWO-EAR TENDENCY 4 = THREE-EAR TENDENCY
1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 2 1 = SIN 3 = STE Cytoplasm Type: 5 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 LEAF (Field Corn Inbred Examples Given):	GLE 2 = SLIGHT TWO-EAR TENDENCY ONG TWO-EAR TENDENCY 4 = THREE-EAR TENDENCY
1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 2 1 = SIN 3 = STE Cytoplasm Type: 5 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 LEAF (Field Corn Inbred Examples Given): Color:	GLE 2=SLIGHT TWO-EAR TENDENCY ONG TWO-EAR TENDENCY 4=THREE-EAR TENDENCY = OTHER (Specify) not tested
1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 2 1 = SIN 3 = STE Cytoplasm Type: 5 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 LEAF (Field Corn Inbred Examples Given): Color: 2 1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = 1	GLE 2=SLIGHT TWO-EAR TENDENCY ONG TWO-EAR TENDENCY 4= THREE-EAR TENDENCY = OTHER (Specify) not tested
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1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 2 1 = SIN 3 = STE Cytoplasm Type: 5 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 LEAF (Field Corn Inbred Examples Given): Color: 2 1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = 1	GLE 2=SLIGHT TWO-EAR TENDENCY ONG TWO-EAR TENDENCY 4=THREE-EAR TENDENCY = OTHER (Specify) not tested DARK GREEN (B14) 4= VERY DARK GREEN (K166)
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1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 2 1 = SIN 3 = STE Cytoplasm Type: 5 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 5. LEAF (Field Corn Inbred Examples Given): Color: 2 1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = 1 Angle from Stalk (Upper half): Sheath Pubsce	GLE 2=SLIGHT TWO-EAR TENDENCY ONG TWO-EAR TENDENCY 4 = THREE-EAR TENDENCY = OTHER (Specify)not_tested DARK GREEN (B14)
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1 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 2 1 = SIN 3 = STE Cytoplasm Type: 5 1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 5. LEAF (Field Corn Inbred Examples Given): Color: 2 1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = 1 Angle from Stalk (Upper half): Sheath Pubsces 1 1 = < 30° 2 = 30-60° 3 = > 60° 2 1 Marginal Waves: Longitudinal Coloridation (MF9) 3 = MANY (OH7L) 2 1 Width: Length:	GLE 2=SLIGHT TWO-EAR TENDENCY ONG TWO-EAR TENDENCY 4= THREE-EAR TENDENCY = OTHER (Specify) not tested DARK GREEN (B14)
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FORM LPGS-470-28 (3-79) (Formerly Form GR-470-28 (2-74), which may be used)

6. TASSEL:	The control of the company of the control of the co	and the state of t
	Romada o casco da maio caso do como	
	NUMBER OF LATERAL BRANCHES	gramman commences
		A real dwin strate legis e
Branch An	gle from Central Spike:	Penduncle Length:
1	1 = < 30°, 2 = 30-40°, 3 = > 45°	1 5 CM. FROM TOP LEAF TO BASAL BRANCHES
D-U CL-	and the second of the second o	
Polten She	α:	
2	1 = LIGHT (WF9) 2 = MEDIUM	3 = HEAVY(KY21)
2	Anther Color: 1 = YELLOW 2 = 1 Glume Color: 6 = OTHER (Specify)	PINK 3 = RED 4 = PURPLE 5 = GREEN
Pollon Por	toration for Cytoplasms (o = Not Tested, 1 = Partial, 2	n de grand de la companya de la comp
Polieli Nes	toration for Cytopiasms (0 - Not Tested, 1 = Partial, 2	– G000)
О "т"	0 "s" 0 "c"	OTHER (Specify Cytoplasm and degrees of restoration)
7. EAR (Hus	sked Ear Data Except When Stated Otherwise):	
1 5	CM LENGTH 4 6 MM. MID-POINT DIAMETER	1 3 6 GM: WEIGHT CASE TO HER SPECIAL SECTION IN THE
Kernel Rov	vs:	Mag 1
2	1 = INDISTINCT 2 = DISTINCT	1 8 NUMBER
1 Silk Color (1 = STRAIGHT 2 = SLIGHTLY CURVED (Exposed at Silking Stage):	3 = SPIRAL 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3
1	1 = GREEN 2 = PINK 3 = SAL	
		The state of the s
Husk Color		The second of the second of
1	FRESH 1 = LIGHT GREEN	2 = DARK GREEN 3 = PINK
6	DRY	= PURPLE 6 = BUFF
Husk Exten	tion: (Harvest Stage)	Husk Leaf:
3 1 = Si 3 = Li	HORT (Ears Exposed) 2 = MEDIUM (Barely Covering ONG (8-10CM Beyond Ear Tip)	
4 = V Shank:	ERY LONG (> 10 CM)	Position at Dry Husk Stage:
0 7	CM LONG 3 NO. OF INTERNODES	1 1 = UPRIGHT 2 = HORIZONTAL 3 = PENDEN
(
Taper:		Drying Time (Unhusked Ear):
	1 = SLIGHT 2 = AVERAGE 3 = EXTREME	3 1 = SLOW 2 = AVERAGE 3 = FAST
8. KERNEL (E	Oried):	
Size (From I	Ear Mid-Point):	
1 1	MM LONG 6 8 MM. WIDE	4 4 MM, THICK
Shape Grade	e (% Rounds)	
*	1=<20 2=20-40 3=40-6	5 = 80

FÖRM LPGS-470-28 (3-79)

8. KERNE	L (Dried) :		1				8	300157
1	Pericarp Color:	1 = COLORLE 5 = BROWN / 8 = VARIEGA	. !	6 = LIGHT	HITE CROWN RED	3 = TAN 7 = CHERRY		·
1	Aleurone Color:				REGATING (Describe)_			
1	1 = WHITE	2 = PINK 8 = PALE P	•		4 = BROWN RIEGATED (Describe)		5 = BRONZE	6 = RED
3	Endosperm Color:	1 = WHITE	2 = PALI	E YELLOW	3 = YELLOW	4 = PINK-OR	ANGE 5 = WH	ITE CAP.
Endosper	m Type:						•	
3	1 = SWEET (su1) 5 = WAXY STARC				3 = NORMAL STAI 7 = HIGH LYSINE		HIGH AMYLOSE ST	ARCH
2 5	GM, WEIGHT /100	SEEDS (Unsize	i Sample)					
9. COB:								
2 5	MM. DIAMETER A	T MID-POINT					5	
Strength:		-		Co	olor:			
2	1 = WEAK	2 = STRONG			1 = WHITE 2 = 5 = VARIEGATED		RED 4 = BROWN HER (Specify)	
10. DISEASE	RESISTANCE (O =	Not Tested, 1 =	Susceptible, 2	? = Resistant)	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
0 STALK ROT (Diplodia) 0 STALK ROT (Fusarium) 0 NORTHERN LEAF BLIGHT 0 SOUTHERN LEAF BLIGHT 0 SOUTHERN RUST 0 BACTERIAL LEAF BLIGHT 0 MAIZE DWARF MOSAIC 0 STALK ROT (Gibberella) 0 STALK ROT (Gibberella) 0 SMUT 0 BACTERIAL WILT 0 STUNT								
11. INSECT F	RESISTANCT (O = N	lot Tested, 1 = S	usceptible, 2 =	Resistant):				
0	CORNBORER ROOTWORM (North		EARWORM ROOTWORN OTHER (Spe	, ,	0 зарв	BEETLE	0 APHI	D
12. VARIETIES MOST CLOSELY RESEMBLING THAT SUBMITTED FOR THE CHARACTERS GIVEN:								
CHARACT	TER /		VARIETY	Inbred	CHARACTER		VARIETY	
Maturity A641		·		Kernel Type		В73		
Plant Type			B7.3		Quality (Edible)	В73	
Ear Type			В73		Usage _.		В73	
(E T S	J.S. Department Agr Corn: Culture, Proce Emerson, R.A., G.W. The Mutants of Maize Stringfield, G.H. Maize Stringfield, G.H. Maize	ssing, Products. Beadle, and A.C 1968. Crop S te Inbred Lines o	1970 Avi Pub Fraser. A Sur cience Society of Ohio, Ohio	mmary of Lin of America. A.E.S. Bul. 8	any, Westport, Connection kage Studies in Maize.Co Madison, Wisconsin. 131. 1959. red Lines – PhD. Thesis,	ornell A.E.S., M	em. 180. 1935.	
COMMENT	S:							